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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,976	12/08/2003	David Tarasenko	P508 0003	1098
720	7590 09/30/2005		EXAMINER	
OYEN, WIGGS, GREEN & MUTALA LLP			FORTUNA, JOSE A	
	480 - THE STATION 601 WEST CORDOVA STREET			PAPER NUMBER
VANCOUVER, BC V6B 1G1 CANADA			1731	
			DATE MAILED: 09/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/728,976	TARASENKO, DAVID				
Office Action Summary	Examiner	Art Unit				
	José A. Fortuna	1731				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a repty be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 26 A	August 2005.					
2a)⊠ This action is FINAL . 2b)□ Thi	This action is FINAL . 2b) This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•				
4) Claim(s) 1-62,66,68 and 71-73 is/are pending	in the application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-62,66,68 and 71-73</u> is/are rejected						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachment(s)	_					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D					
 Notice of Draitsperson's Patent Drawing Review (P10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 6/04;5/04;3/04. 		Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-62, 66, 68 and 71-73 are rejected under 35 USC §103(a). This rejection is set forth in the prior Office action mailed on May 26, 2005.

Response to Arguments

3. Applicant's arguments filed on August 26, 2005 have been fully considered but they are not persuasive.

Applicants' argue that the main reference, Prior, US Patent No. 4,652,341, does not teach nor suggest the concentration of nitric acid as claimed, i.e. he teaches a concentration from about 0.125 to about 9% w/w. This argument is not convincing for the following reasons:

- a) Applicants claim a lower range of about 10% and the about 9% of the cited reference reads on about 10%. Nine percent is within the accepted error level(s) of the concentration for the use in the papermaking operation.
- b) Even if about 9% would not be considered within the range of about 10%, using a concentration in the claimed range would have been obvious to one of

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ordinary skill in the art since the skill in the art would recognize that the important factor is the ratio of nitric acid to wood for the nitration, (the cited reference also teaches that, see for example column 7, lines 41-55), and that using a more concentrated solution of nitric acid would only change the amount of lignocellulosic material that has to be submerged. Note also that in tables 1 and 2, the cited reference shows that higher concentration of nitric acid has been used by the prior art to nitrate cellulosic fibers.

Applicants also argue that the process does not require any aluminum compounds as it is required by the cited reference. This is also unconvincing, because Prior teaches that the aluminum compound can be used to accelerate the nitration process, but it is an optional compound/step.

Applicants also argue that the temperatures and times of the heating steps/stages, claimed in claims 4, 15-16, and 54, are not suggested by the cited reference. This is also not convincing, because the recognition of an optimal range of temperature and impregnation time is within the levels of ordinary skill in the art. Optimizing pH, temperatures, amounts of buffer and oxidizing agent are within the level of ordinary skill in the art, absent a showing of unexpected results. It has been held that "[T]he discovery of an optimum value of a result effective variable in a known process is ordinarily within the skill of the art. *In re Antoine*, 559 F.2d 618, 195 USPO 6 (CCPA 1977); *In re Aller*, 42 CCPA 824, 220 F.2d 454, 105 USPO 233 (1995).

Conclusion

4. This is a RCE of applicant's earlier Application No. 10/728,976. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the

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grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José A. Fortuna whose telephone number is 571-272-1188. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P. Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> **Primary Examiner** Art Unit 1731

JAF